

# FOLIO

UNIVERSITY OF ALBERTA  
2 DECEMBER 1994



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## Piper appointed to NABST by PM

*Board focuses on science and technology strategy*

By Sandra Halme

Martha Piper, Vice-President (Research), is one of 19 "eminent Canadians" who make up a special new National Advisory Board on Science and Technology (NABST). Appointed by Prime Minister Jean Chretien in late August, Dr Piper and her Board colleagues have the general role of providing advice to the Prime Minister on federal government policy directions and national issues related to science and technology.

As a member of NABST, Dr Piper sees her contribution as increasing the consciousness of the federal government to the importance of science and technology to the country. "I'm confident that NABST work will result in action by government," she says, adding that, "countries throughout the world are now recognizing the importance of science and technology to their economy."

She goes on to say that one of NABST's objectives is to convince the government that science and technology will have an enormous impact on the country's economic climate — even to the point of decreasing the deficit. "For years we've relied on natural resources for our economic base," Dr Piper states. "We have to change our way of thinking and enhance our natural advantages with science and technology." She also says that the country needs a new kind of work force, one which complements the norm and utilizes scientific and technological advances.

The Prime Minister agrees, saying, "Canada's comparative advantage now hinges not just on our natural resources or our location, but on our technological prowess and on our ability to innovate. NABST represents a non-partisan, expert source of advice which can be a real help to me and my Cabinet in developing framework and

priorities for successful Canadian innovation. It helps us manage Canada's science and technology skills and resources to best advantage."

The Prime Minister has specifically asked the Board to conduct an independent assessment of federal science and technology strategy, in conjunction with the Science and Technology Review launched by the federal government on 28 June. As part of this assessment, Dr Piper was chosen to co-chair one of four NABST committees and heads the Quality of Life committee. Dr Piper says no longer does the wealth of a country relate directly to its quality of life. According to her, science and technology plays a role in the sustainable quality of such things as health, environment, education and employment.

NABST was created in 1987 and since then has produced 29 reports. The Science and Technology Review is the most recent example of government action taken in response to a NABST recommendation. Development of a Canadian Technology Network, to link industry with universities, industry associations and governments, is another.

Dr Piper and the rest of the NABST Board will serve a one-year term. Other members of the Board include Regis Duffy, president, Diagnostic Chemical Ltd; Monique Lefebvre, president and CEO, Centre de recherche informatique de Montreal; Art May, president, Memorial University; Kelvin K Ogilvie, president, Acadia University; Bernard Shapiro, principal, McGill University; and Sheelagh Whittaker, president, Information Technologies, EDS Canada. Other members include representatives from education, government and industry in Canada.



### President-elect visits Civil Engineering

President-elect Rod Fraser, second from left, recently stopped by the hydraulics laboratory as part of his tour of the Department of Civil Engineering. Pictured with him are, from left, Professors Nallamuthu Rajaratnam, Thian Gan, Faye Hicks and Norbert Morgenstern, and graduate student Hamid Shamloo and senior technician Sheldon Lovell.

## AAS:UA highlights 'no pay days'

By Michael Robb

The Association of Academic Staff asked its members to observe "no pay day", Wednesday, 30 November.

The three-year salary agreement negotiated by the AAS:UA this past summer called for a four percent pay cut and six days each year without pay. Two of them will be taken along with the Non-Academic Staff Association between Christmas and New Year's, two will be negotiated with various chairs and directors and two will be 'no pay days' when association members will teach and provide services in spite of not being paid. 30 November was the first of those days.

Hereafter, they will be taken the first Wednesdays in November and March for the duration of the agreement, AAS:UA President Ann McDougall explains.

Students, parents, nonacademic staff and the public in general should care that reduced government funding to the University has resulted in salary cuts for faculty, administrative professional officers, librarians and faculty service officers, the AAS:UA explained in broadly distributed posters.

Dr McDougall asked AAS:UA members to use no pay days to publicize that all parts of the University are hurting from budget cuts.

"We invite your personal support in whatever way you think best. We will be sending out a handout briefly explaining what we think 'no-pay day' is all about, in hopes that you will see fit to announce it to classes, to post it on your door, to share it with our neighbours or to explain in any other public forum you think appropriate."

## Slain women to be remembered

### Two events planned

Several University groups are cooperating to sponsor two events to commemorate the 14 female engineering students killed on a Montreal campus on 6 December 1989.

Entitled "From Aftermath to Action", the memorial consists of two events:

#### "Where do we go from here?"

Monday, 5 December, 4:15 pm, Dinwoodie Lounge, SUB

This event involves a social drama followed by a panel discussion with Laurie Blakeman, former Director of the Alberta Advisory Council on Women's Issues; Marcella Daye, Director of the Student Ombudservice; Fil Fraser, Edmonton broadcaster and former Chair of the Alberta Human Rights Commission; Dianne Kieren, Professor, Human Ecology; Marie Laing, former ND MLA, and Graham Lowe, Professor, Sociology.

#### "From Mourning to Dancing"

Tuesday, 6 December, 12:30 pm, foyer between Rutherford and Chinese Libraries.

This memorial ceremony will include poetry readings, songs, dance and lighting of candles to move participants from the tragedy of the incident toward hope and the shaping of a transformed world. There will be no speeches, instead the memorial will use symbols to allow participants to move about.

Candles for the Tuesday memorial will be available for a small donation. Proceeds will benefit student involvement in the summer program sponsored by WISEST, Women in Scholarship, Engineering, Science and Technology.



# Canadian Circumpolar Institute publications program rises from the ashes

## Publishing savvy beginning to pay off

By Michael Robb

The Canadian Circumpolar Institute's publications program may be a model for others on campus, says Ian MacLaren, a CCI adjunct researcher and member of the publications committee.

"It's really a great success story, and an example of what a little help from outside can do," Dr MacLaren says, pointing out that business manager Cindy Reekie, hired in July '93, has been instrumental in raising the national and international profile of CCI publications.

"We certainly hired the right kind of people, and it's really been a group effort here," CCI Director Cliff Hickey says. "We're pleased with the way things have gone."

"One of our objectives is to have this publications program pay for itself and, eventually, bring in additional revenues to support CCI research and other programs," says Reekie. "This is much more of an entrepreneurial focus."

"I think we can safely say that by the end of fiscal year 1995-96, CCI's publications program will report a net profit," Elaine Maloney, Assistant Director (Programs), says.

CCI rose from the ashes of the former Boreal Institute for Northern Studies in 1990. Between 1960 and 1990, the old Boreal produced 29 volumes. CCI has produced 13 volumes from 1990 to 1994 and has three more publications in press now. The Institute solicits submissions for publications from a variety of sources, but at least 80 percent of the publications are connected to research car-

ried out through the Institute, by CCI's research associates, or proceedings of conferences and seminar series.

Two of the Institute's bestsellers are *Wolves/Bison*, nominated for the Book Publishers' Association of Alberta award in scientific writing, and *The Nunavut Atlas*. About 400 of the 750 atlases have been sold at \$150 each. And CCI's *Human Ecology Series* is also gaining popularity as a textbook for the newly created human ecology programs and departments at various universities.

Reekie has been instrumental in raising the profile of CCI titles, strengthening relations with institutions in northern countries, and increasing mailing lists in a worthwhile way. Selective advertising, streamlining op-

erations and soliciting new titles has also paid off. Reekie has made sure CCI publications are more well known by the Alberta Book Publishers' Association and other related associations, so CCI is known beyond this campus. CCI's books are also displayed at related conferences. A good accounting and invoicing system is now in place, and CCI is looking at outsourcing its catalogue.

"When you're trying to sell something, you've got to market your product," Dr Hickey says. Adds Dr MacLaren, "Now we have the seller doing all the work that the seller can possibly do. Academics have had to retool and figure out how to build bridges to people outside academe, to the world that isn't going to automatically buy the books."

"We're getting fairly well versed in the nuts and bolts of publishing," Dr MacLaren says.

The revitalized publications program is also good for local printers. Most of CCI's publications are modestly produced.

"Although things are going well, we can't afford to take a bath on a book," says Dr MacLaren. "We have to be relatively sure of our market before we publish it."

"Boreal was cut loose," says Dr MacLaren. "And rather than let this slide into a slow and painful death, we managed to bring it into a greater prominence that doesn't drain our budget." A lot of credit goes to Cliff Hickey, Dr MacLaren points out.

## CaPS to conduct U of A graduates survey

### Information will help students do career planning, say CaPS officials

By Michael Robb

Did your classmates get jobs? If so, are they in areas related to their educational studies? Those are two of a number of critical questions Career and Placement Services (CaPS) hopes to ask when it conducts its survey of University of Alberta graduates later this year.

This graduate employment survey will be the first ever conducted at the University of Alberta to encompass the whole University.

CaPS Director Wendy Coffin says the organization has wanted to conduct this kind of survey for some time. "We piloted one a number of years ago in the Faculty of Science. We feel it's very important to have information available to students for career advising."

"Quite often we're telling students that we believe that people with certain academic combinations will find work in this or that sector. What we want is the facts for the U of A to back it up, so we can say that graduates from these areas went here or there."

That kind of information will help students in their job searches, says CaPS Manager of Career Services, Joan Schiebelbein. "If English majors can look back and see that a company has hired so many English grads, that's one company they may want to target in their job search."

Generally, colleges and technical institutes survey their graduates six months after their graduation, but that isn't really appropriate for the U of A. Typically, three to five years out, university students will be on a career track. For example, NAIT and U of A engineering graduates will be hired for the same entry-level positions, but the U of A graduates will eventually be able to assume more senior positions such as project leaders or managerial positions, Schiebelbein explains.

So we have to make a decision about whether we will survey graduates three or five years out, 1990 or 1993, says Coffin. "If we do it five years out, we'll ask them about their employment one year out, three years out and five years out."

Some departments and Faculties have employment information. CaPS found, however, that only two Faculties and four departments have conducted employment surveys. Some of that information is quite old.

The administration and departments may use the information for other purposes, Coffin says. And high school guidance counsellors are anxious to have the employment survey data at hand when they advise their students on career planning.

It's a huge job to conduct an employment survey, says University of Lethbridge Career and Employment Services official, Pat Tanaka. U of L surveyed its 1988 and 1992 graduates last summer.

## CURRENTS

### Farewell reception for John McDonald

On behalf of Board Chair John Ferguson, members of the University community are cordially invited to a reception on Friday, 16 December, to be held in the Lister Hall Banquet Room from 4 to 6 pm in honour of Acting President John McDonald. Dr McDonald has served our University for many years, and in many capacities: as Chair of Physics; as Dean of Science; as Vice-President (Academic); and since 1 July as Acting President. Friends and colleagues of the McDonalds are invited to join in wishing John and his wife, Wendy, well.

Those wishing to mark the event with a gift are invited to send contributions to Pat Heatherington at 3-1 University Hall. Cheques may be made payable to the John McDonald Gift Fund.

### Retirement reception for Sylvia Chetner

A retirement reception will be held for Sylvia Chetner, Health Sciences Librarian, at the Faculty Club on Wednesday, 14 December, from 3 to 5 pm. Please RSVP by 7 December by calling Marg Barkwell at 492-3899. Donations toward a gift may be forwarded to Marg Barkwell at the JW Scott Health Sciences Library, 2K3.28 WC Mackenzie Health Sciences Centre, by 7 December.

### Farewell reception for Elizabeth Vincze

The Technical Resource Group is pleased to invite you to a farewell reception for Elizabeth Vincze as she retires from Instrument Repair after 30 years of service. The reception will be held on 16 December from 3 to 5 pm in the Heritage Lounge, Athabasca Hall. Cost: \$5 per person. Please RSVP to Pat Tomlinson at 492-3302 by 12 December.

Should you wish to contribute to the gift, please contact Trish O'Hara at 492-6713, or Noreen Carlson at 492-0147.

### Computer mediated communications seminar

A seminar exploring ways to create and enhance learning environments, using computer mediated communications, will take place 9 December in 5-34 Extension Centre, 1:30 to 3:30 pm.

The seminar leader, Dr Rosalie Wells, is a distance education specialist who has consulted with Athabasca University faculty on CMC course design and teaching and who has written training manuals for faculty and students in the pedagogy of CMC.

The seminar is sponsored by the Alternative Delivery Initiative, 492-1183, and the Division of Continuing Pharmacy Education, 492-2393.

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*Folio's* mandate is to serve as a credible news source for internal audiences by communicating accurate and timely information about issues, programs, people and events.

#### DEADLINES:

Notice of coming events: 9 am three weeks in advance of event. Classified advertisements: 3 pm one week before desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 40 cents per word with no discount for subsequent insertions. There is a limit of 40 words and a minimum charge of \$2.00. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.


Display advertisements: 3 pm Friday, seven days before desired publication date. Camera-ready artwork is required to size, complete with halftones if necessary. Call 492-0436 for sizes, rates and other particulars.

The editor reserves the right to limit, select, edit and position submitted copy and advertisements. Views expressed in *Folio* do not necessarily reflect University policy. *Folio* contents may be reprinted with acknowledgment.

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University  
of  
Alberta



United Way

Thanks, U of A,  
for caring and  
sharing through  
United Way

"THANK YOU, U of A employees, for your contribution of more than \$200,000 towards services that will make a difference in people's lives," said Denis Ellard, United Way Campaign Chair for Alberta Capital Region. "Your generosity will enable many programs to continue serving people in need."

In appreciation, all campus volunteers and sponsors are invited to join U of A Campaign Co-Chairs Glenn Harris and John Barry at an

**Open House**  
**Tuesday, 6 December**  
**4:30 to 6:00 pm, at Alumni House**

RSVP by fax to 492-9671; by 2 December, please.  
(Call Gail Bamber at 492-2796 if you have questions.)



# Teaching Innovation Week a success

## Professors in Agriculture, Forestry, and Home Economics willing to take risks

By Judy Goldsand

Al Bertschi, a student in David Chanasyk's Land Reclamation 485 course, showed up last week in a suit and tie to play his role as vice-president finance for an oil company. Each of the 27 class members assumed a role in a staged dispute about reclamation of the land at a well-site. "Reclamation consultants, Greenpeace activists and local land owners were represented," said Bertschi. "It really enabled us to see others' perspectives, and consider things like ethics and finances."

This was one of a number of classes taking part in Teaching Innovation Week in the Faculty of Agriculture, Forestry, and Home Economics from 14 to 18 November. Bente Roed, Director of University Teaching Services, said the Faculty deserves congratulations for being the first to initiate a week of teaching innovations and for their willingness to take risks.

"Try to push yourselves to be as innovative as possible," Anne Lambert told students in her Domestic Material Culture 438 class. Rutherford House was the stage for students to present vignettes in a first person voice or voices to depict issues raised in their primary research related to laundry. Although students initially found it "scary" to perform, they concluded it was a much more interesting way to share their research with classmates than simply reporting.



Sue Saunders, foreground, and Katharine Young, left, and Nicole Kluthe present a vignette at Rutherford House during Teaching Innovation Week.

Jerry Leonard, in an introductory engineering course, asked students to design and construct a structure out of newspaper that would support a golf ball. The highest one would earn its builders a pizza and a pitcher of pop. Each student had one sheet of newspaper and 10 cm of tape. Many fundamental principles of design and the cost/benefits of

pooling resources came into play. The winning entry reached the ceiling (with some wall support) and one free-standing structure reached two metres. "We saw lots of creativity and lateral thinking," said Dr Leonard.

Student Carla Patrick said she enjoyed her Agriculture/Forestry 100 class taught jointly by David Chanasyk and Anne Naeth. Each of the 300 students was asked to write a question, give it to a second student to answer, then to a third to mark. "We wanted to give students a chance to experience writing questions and the agony of marking," said Dr Chanasyk. Students were graded on each stage of the exercise.

Students in Peter Sporns 300 level food chemistry class gave classmates a list of ingredients from various food labels and asked them to identify the products. The "winning" product that stumped everyone was a diet reveal. "It contains virtually nothing of nutritional value," said Dr Sporns.

Since the Convention for International Trade in Endangered Species was taking place during the week, Bob Hudson decided to ask his lab students in animal science to hold a mock meeting. The Convention sets controls for most of the world's classified animals. Students as delegates represented South Africa's view, East Africa's view, and that of others in a discussion about ivory.

Students in a foods and nutrition biology course taught by Michael Stiles and Lynn McMullen, were studying food-borne illnesses. They were asked to list concerns they had about ways their parents, friends or relatives handled food. Long inventories were compiled, some with very graphic descrip-

tions of the resulting illness, said Dr Stiles. The same instructors took a selection of fermented foods (including cheeses, pickles, yoghurt, wines and soda crackers) to a class studying fermentation and, after discussion, students polished off the food.

In a required communications course for Agriculture/Forestry students, Mary-Anne Porier asked for suggestions about innovative ways to learn. The class decided to watch a video of "The Simpsons" and analyze it from a communications perspective. Student Alan Dunn said the class learned a lot about communication modes and body language, and stayed wide awake.

Students in Dianne Kieren's course in family well-being put together 22 resource books about activities families could do together.

Some professors said they learned a lot in the process. Mick Price, who tried a debate in one of his classes, said next time students should have more time to plan the process. Peter Crown realized that operating different types of video equipment takes some learning time.

An informal celebration on 18 November allowed professors and students to exchange stories about their innovative teaching and learning experiences. Dean Ed Tyrchniewicz thanked all participants for their "fascinating exposés", and members of the Faculty's Teaching and Learning Committee (Anne Naeth (Chair), Anne Lambert, Jerry Leonard, Bill Phillips and Peter Sporns) for their initiative. The Faculty intends to make Teaching Innovation Week an annual event.

# The good and the bad of the green and white

## Senate briefed on possible impact of provincial white paper and federal discussion paper on postsecondary education

By Michael Robb

There are massive changes in store for the nation's and provinces' postsecondary education systems, Senate was told by a panel of University-affiliated spokespeople at its regular meeting, 18 November.

However, faculty, student and administration representatives made it clear that there is still a lot of uncertainty about the impact some of the recent federal and provincial initiatives will have on the University of Alberta.

The recent provincial government decision to maintain a cap on tuition fees is good, said Students' Union Vice-President (External) Kyle Kasawski and Graduate Students' Association President Kimberley Krushell. And the provincial government's decision to reject full cost-recovery fees for foreign graduate students was welcome relief, said Krushell. The government listened to us.

But the students told Senators that the federal proposal to create an income-contingent loan scheme might put upward pressure on tuition fees. The ability to repay loans based on income after graduation is a good idea, said Kasawski. Added Krushell, "Tuition is rising and students are taking more of a hit."

The panel discussion was organized to inform Senators about two documents, the provincial government's white paper, *New Directions for Adult Learning in Alberta*, and the federal discussion paper, *Agenda: Jobs and Growth, Improving Social Security in Canada*, the so-called "green paper".

Non-Academic Staff Association Manager Mike Tamtom said the commendable recommendations in the white paper are contradicted by provincial government legislation such as the *Banff Centre Amendment Act*, the

*Government Organization Act* and the *Delegated Administration Act*. "The government's agenda is total privatization of education," said Tamtom, and cost-cutting and staff reductions are part of that plan.

Associate Vice-President (Research) Bill Bridger said the provincial government is beginning to recognize that the two major universities are not like the other post-secondary institutions in the province. "We're hoping that the U of A and U of C will, in part, be evaluated on our research performance. We think we'll do very well if we are fairly evaluated by criteria that the universities and government agree are appropriate."

Association of Academic Staff President Ann McDougall was not optimistic about the provincial government's willingness to support research. It's not part of their agenda, she said. Nor have faculty members been consulted on the performance indicators for universities being developed by the provincial government. University administrators have been working with Advanced Education and Career Development in their formulation, Acting Vice-President (Academic) Roger Smith said.

On the provincial government's request that the U of A reopen its contract with the faculty association to include program redundancy and financial exigency clauses, Dr McDougall said faculty resent the intrusion on autonomy and on their ability to conduct their own affairs. She said the University and faculty already have a very effective agreement review process in place.

"I share her [Dr McDougall's] concerns about having a gun put to our heads and a timeline in terms of carrying out meaningful negotiations," said Dr Smith, but the U of A is

one of the few institutions without redundancy and financial exigency clauses in its faculty agreement.

Dr Smith said that if the possible withdrawal of \$2.6 billion in cash transfer payments from the federal government to the provincial governments were passed through to the U of A, it would be a \$50 million hit. "That's roughly comparable to the 11, 7 and 3 percent reductions that have been imposed on us by the provincial government."

If the federal government did phase out the cash transfers, proposed in the green paper, and the provincial government did not take any offsetting action, the result would be a doubling of tuition, Dr Smith explained. "That

would be a major impact in various ways."

Dr Smith pointed out that 70 percent of graduating university students in the province have some debts with the Student Finance Board—the median debt for undergraduate students is roughly \$13,500. A much smaller percentage of graduate students have loans, but their median load is around \$24,000.

"So, students are already carrying substantial debt loads, and people should be aware of that when they look at what the green paper is proposing," Dr Smith said.

"I hope the province will come to a better understanding on the role and responsibility of providing research infrastructure," Dr Bridger said.

## Rutherford Award for Excellence in Undergraduate Teaching

The GFC Undergraduate Teaching Awards Committee (UTAC) reminds the University community that nominations are now being sought for the annual Rutherford Award for Excellence in Undergraduate Teaching.

The purpose of the Rutherford Award is to recognize excellent teaching, to publicize such excellence to the University and the wider community, to encourage the pursuit of excellence in teaching, and to promote informed discussion of teaching and its improvement at the University of Alberta.

Nominations are made by Faculties that teach undergraduate students, and information about the nomination procedures and adjudication criteria has been sent to those

Faculties. Nominations should be made through a Faculty committee and submitted by the Faculty to the Secretary of UTAC, 2-5 University Hall. Anyone who needs assistance and advice in preparing nominations should contact Bente Roed, Director, University Teaching Services, 215 Central Academic Building (492-2826). The deadline for receipt of award nominations is **10 February 1995**. In most cases, individual Faculties have established earlier deadlines to allow for internal adjudication procedures.

At least one award, but not more than five, is given annually. The award recipients are publicly recognized at a special occasion and at Convocation. They also receive a memento and a cash prize of \$2,500.



## University Library one of founding sponsors of Edmonton's FreeNet

*U of A now has another way of communicating with public*

By Michael Robb

People and organizations on campus now have another outlet for disseminating information. Edmonton's Freenet, a computer-based information and communications service, is up and running.

University Library staff have played a major role in getting the new service operational. In addition, the Library is one of the eight founding members of the FreeNet.

Now that the service is online, it's time for people and organizations on campus to think about how they want to contribute to the service, says Doug Poff, head of the Library's Information Technology Services. The Library's card catalogue will be on the FreeNet. "I'd also like to see the FreeNet and Campus Wide Information System feed off one another," says Poff, adding that people on campus are being trained how to load information on to the FreeNet.

The FreeNet is one giant community database of text information, Poff explains. It provides its registered members (there's a \$15 registration fee) access to electronic mail, government databases, other sites around the world and electronic discussion groups. "It's not meant to be a passive medium; it's intended to be interactive," Poff says. "It will be entertaining and informative."

The eight founding members are: the University Library, Edmonton Public Library (its card catalogue is going online), the Edmonton

Journal, the Learning Link, Ed Tel, Software Alberta Society, IBM and AGT.

Access to FreeNet will be available on computers located throughout the city, or through home or office computers via modem. There are already 1,100 registered members, and additional phone lines are being added to handle the growing demand. There are about 500 to 800 phone calls into the FreeNet on a daily basis.

Poff estimates it will cost between \$100,000 and \$150,000 to operate the service on an annual basis. Ottawa's FreeNet has more than 200 lines to pay for each year. That, by far, is the biggest cost of operating a FreeNet, he explains. Part of the start-up costs were picked up by the Canada/Alberta Infrastructure Program. Each of the eight founding members kicked in \$20,000 and are committed to providing \$10,000 each year. "We're also looking for other ways of supporting our costs," says Poff.

"FreeNet will become a place for Edmontonians to do business," Mayor Jan Reimer says. "In the next few years, FreeNet will become a form of one-stop shopping for Edmonton businesses. Access to information is getting more important all the time and will be part of our competitive advantage."

Poff points out that, unlike other FreeNets, Edmonton's is allowing commercial activity. "We recognize that the business community is an integral part of our community."

## Anemone holds promise of stronger heart beat

By Elsa Roehr

A protein found in the sea anemone may some day yield a new drug to strengthen the human heart beat.

Researchers in the Faculty of Pharmacy and Pharmaceutical Sciences have successfully isolated a powerful protein that stimulates the heart beat from compounds found in sea anemones from Canada's west coast.

Team member John Samuel, Assistant Professor of Pharmacy, stresses that the research is a long way from producing a drug. "What we have done is isolate and purify a protein, and we have partially characterized its structure," he says.

Tropical and sub-tropical sea anemones have long been the subject of research, but not often for compounds that have cardiac properties. The U of A researchers looked at

the more readily available west coast anemones.

The work was begun by Pharmacy Professor Michael Wolowyk and PhD student Edith Cline. They brought James Young, a Physiology Professor, into the research, and Cline and Dr Young continued the work after Dr Wolowyk's death. They were joined by Dr Samuel and Associate Dean of Pharmacy Len Wiebe.

"My thanks to Dr Wolowyk's colleagues who pitched in to direct the completion of this study following his untimely death," said Dick Moskalyk, Dean of the Faculty. "The results certainly look promising."

Cline presented a paper of the team's findings at the recent annual meeting of the American Association of Pharmaceutical Scientists in San Diego.

## 1995-96 Killam Annual Professorships application process

Applications for the 1995-96 Killam Annual Professorships are now available. All regular, continuing, full-time academic faculty members who are not on leave during 1995-96 are eligible to apply. Eight Killam Annual Professors will be selected by a subcommittee of the Killam Trusts Committee; no more than two Professorships shall be awarded to staff members in any one Faculty. Each Killam Annual Professor shall be awarded a \$2,500 prize and a commemorative scroll. The duties of Killam Annual Professors shall not be changed from those that they regularly perform.

The primary criterion for selection shall be a record of outstanding scholarship and teaching over three or more years, as evidenced by any or all of research, publications, creative activities, presented papers, supervision of graduate students, and courses taught. The secondary

criterion shall be a substantial contribution to the community beyond the University by linking the applicant's University responsibilities and activities to community needs and/or development.

Awards are tenable for twelve months commencing 1 July 1995. The completed application must be received in the Office of the Vice-President (Research) no later than Friday, 27 January 1995, at 4:30 pm. The awardees shall be announced no later than Friday, 12 May, and they will be formally recognized at the Killam Dinner in the autumn of 1995 which is hosted by the Faculty of Graduate Studies and Research.

For further information and application forms, please contact Katharine Moore, Executive Assistant, Office of the Vice-President (Research), by phone: 492-0868, fax: 492-1438, or E-mail: kmoore@vm.ucs.ualberta.ca.

## New AMC president chosen

*Chris Lumb likes corporation's applied research mandate*

By Michael Robb

Newly appointed president and chief executive officer of the Alberta Micro-electronic Centre (AMC), Chris Lumb, wants to increase the Centre's nongovernment revenues.

The 35-year-old former head of the Alberta Research Council's manufacturing technologies department says he expects government revenues to remain stable, while royalties and industrial funding grow.

Lumb says the provincial, not-for-profit corporation, wholly owned by the University of Alberta, can do that by developing more international connections and increasing the corporate focus on technology commercialization with business. The University of Waterloo engineering graduate says he considers himself very much a salesperson. "I definitely want to make sure the world out there knows who we are and what we do."

Since its creation in 1982, AMC has become the focal point for microelectronics technology in the province through technology transfer, industry assistance, training programs, development facilities and ongoing research and development. Last fiscal year, the provincial government contributed a \$1.5 million grant and AMC earned approximately the same amount of money from its research and development, contract services and royalties. AMC's success will be measured on whether it can boost those latter funds.

Lumb says it really comes down to people. "We're selling know-how," he says,



Chris Lumb

and with the right people anything's possible. But those good people have to be intimately connected to the University community and industry, he points out.

"Commercialization of technology is a long road, but the value of an organization like AMC is that it can speed up that process," Lumb says. And in the highly competitive microelectronics industry, the competition for people and ideas is fierce.

"This is scientific entrepreneurialism in action."

Lumb says he took the job for a couple of reasons. First, he's worked in the applied research area and believes in the task. Second, he thinks AMC is well positioned to do the job. "And the responsibility of leading this organization really appealed to me."

Strengthening existing links with the Universities of Calgary and Edmonton will remain a priority with AMC, he says. AMC is ideally placed to help university professors commercialize technological developments. And AMC will remain a vibrant training ground for graduate students. At any one time, 10 to 15 graduate students are affiliated with AMC. Thirty-five people work for the Centre, 25 in Edmonton and 10 at AMC's Calgary location.

## Lechelt earns national award for service to CNIB

By Ron Thomas

In the "isms" of contemporary Canada, volunteerism is becoming increasingly important.

Organizations large and small have to rely on people with a can do (and at times gung-ho) attitude to step forward if services are to be maintained and progress made.

Six years ago, Gene Lechelt, Chair of the Department of Psychology, made just such a move. Having "always found the CNIB to be an exceptional group of people and organization," and

with research interests in blindness, he offered his services and was quickly placed on the advisory board for services to deaf-blind Albertans. He later served as vice-chair of the board and was elected vice-chair of the Alberta-Northwest Territories Division Board of Management. Dr Lechelt represents Alberta and the Northwest Territories on the National Client Services Committee of the CNIB.

The division's "return on its investment" in Dr Lechelt led it to nominate him for the 1994 Canada Volunteer Award - Certificate of Merit, a national competition adjudicated by Health Minister Diane Marleau. The nomination was successful and at a recent reception at the Edmonton Petroleum Club, Dr Lechelt was presented with the award by CNIB Executive Director Bill McKeown.



Gene Lechelt, left, accepts the 1994 Canada Volunteer Award - Certificate of Merit from CNIB Executive Director Bill McKeown.

The award is for "outstanding volunteer contributions to the community."

The nomination notes that since 1988, Dr Lechelt has contributed his "expertise and sincerity for the enhancement of services to blind, visually impaired and deaf-blind Albertans."

Provincial Health Minister Shirley McClellan brought greetings from the government and said, "The commitment we're honouring goes beyond basic and applied research to a commitment to Albertans."

Extending written congratulations to Dr Lechelt were Mayor Jan Reimer, Edmonton Strathcona MP Hugh Hanrahan, Governor General Ray Hnatyshyn, and Prime Minister Jean Chrétien, who stated: "Through your efforts to improve the health and social well-being of others, you have demonstrated a generosity of time and spirit that is an inspiration to us all."



# Joint MEng/MBA makes sense, say students

**Eleni Zervos and Patrick Shaver enrolled in program to broaden their perspectives and enhance job prospects**

By Michael Robb

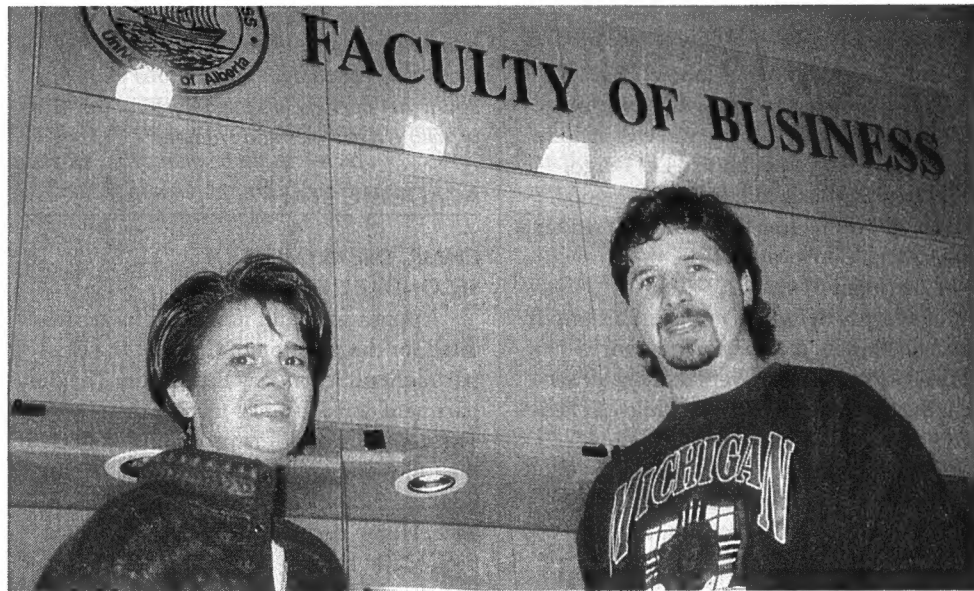
Like many of her classmates, during her undergraduate years Computer Engineering graduate Eleni Zervos worked during the summers for engineering firms. She noticed that many of the more successful engineers were good with people and had extensive management skills.

"My father, a civil engineer, had always tried to convince me that a business background, in addition to the engineering, would be very useful," explains Zervos, who earned her undergraduate degree in 1992. So when she debated the pros and cons of doing graduate work, her father's views and her work experience weighed heavily on her mind.

She applied to do an MEng, but then found out about the University of Alberta's recently established joint MEng/MBA program. "The MEng allows students to specialize in a specific area of engineering, and the MBA helps students make sense of the world," she says.

It was an academic combination that her fellow MEng/MBA student, Patrick Shaver, also found particularly attractive. "I've never considered myself a 'techy'," says Shaver, who earned his undergraduate engineering degree in civil engineering, also in 1992. He originally applied to do an MBA and then decided to do the joint degree.

Both students are satisfied with their decision, and both are willing to put in the necessary extra effort. Zervos believes the MBA won't figure heavily in her early years in the engineering field, but later on she's confident the knowledge she gained by taking the MBA courses will figure more heavily in her career—particularly in the project management and finance areas.



Eleni Zervos and Patrick Shaver are two of four students enrolled in the joint MEng/MBA program.

Shaver has a particular interest in transportation engineering and knows that that field will involve working closely with people from a variety of backgrounds. He figures picking up the people skills through formal education is a good idea, and will lessen the learning curve in the field. And advancing through the ranks will likely be accelerated.

Not everyone can handle the demands of the program, however. In fact, the Faculties only recommend those students they believe have the ability and motivation to handle the program's significant demands. "There aren't that many students in the program," says Shaver, in part because it's not that well known. George Morley and Chris Harrison are also in the program.

Only students with undergraduate degrees in engineering are admitted.

Normally, students take 10 first-year core MBA courses in their first two semesters. As well as taking a required number of engineering and business courses, students must also complete a required engineering project equivalent to two, three-units-of-course-weight courses. The project must have a significant business-related component. For example, Shaver is looking at some of the options to more traditional ways of funding transportation projects, says his project supervisor, Bill Sproule (Civil Engineering).

"The program gives you such a different perspective," says Zervos, pointing out that

MBA students come from diverse disciplinary backgrounds such as nursing, political science and science. And both say that's been invigorating.

"I think in the end I'll be a better engineer," says Zervos, the MBA Students' Association Vice-President Internal. "I still consider myself to be an engineer, but I think the MBA broadens my perspectives."

And there is a demand in industry for people who have management skills and technical backgrounds, says Dr Sproule.

## Three students awarded IF Morrison Scholarships

Three students were recently awarded IF Morrison Scholarships. They are Eleni Zervos, Jason Portas and Patrick Shaver.

The scholarships are endowed by John and Barbara Poole in memory of IF Morrison, Professor of Applied Mechanics at the University of Alberta from 1912 to 1954.

The scholarships are awarded annually to full-time students in MEng or MSc programs in Engineering Management, Construction Management or the joint MEng/MBA program who best demonstrate outstanding dedication, leadership and accomplishment through educational attainment, employment, professional activities and community service.

## TALKS

### ALBERTA HERITAGE FOUNDATION FOR MEDICAL RESEARCH

6 December, 4 pm

Morag Park, assistant professor, Departments of Oncology and Medicine, Royal Victoria Hospital, McGill University, "Hepatocyte Growth Factor Receptor and Oncogene Tyrosine Kinases—Their Role in Cell Mitogenesis, Motility and Morphogenesis." Presented by Anatomy and Cell Biology. 5-10 Medical Sciences Building.

### AGRICULTURAL, FOOD AND NUTRITIONAL SCIENCE

13 December, 12:30 pm

Rika van Huizen, "Brassino Steroids." 1-30 Agriculture-Forestry Centre.

### AGRICULTURAL, FOOD AND NUTRITIONAL SCIENCE AND BIOLOGICAL SCIENCES

15 December, 12:30 pm

Robert J Ireland, Department of Biology, Mount Allison University, "Glycine, Serine and Photorespiration." 1-13 Agriculture-Forestry Centre.

### ANATOMY AND CELL BIOLOGY

20 December, 4 pm

A Bruce Fletcher, principal investigator, Cold Spring Harbor Laboratory, "Cyclins and the Yeast Cell Cycle Engine." 5-10 Medical Sciences Building.

### ANTHROPOLOGY

12 December, 3 pm

Interdisciplinary Conversations #2—"Female Genital Mutilation/Female Circumcision." Panelists: Abdishakur Jowhar, physician, Edmonton Board of Health, and Susan Smith. Moderator: Denise Spitzer. 14-28 Tory Building. Cosponsor: Centre for the Cross-Cultural Study of Health and Healing.

### BIOLOGICAL SCIENCES

2 December, 3:30 pm

Andrew Keddie, "Baculovirus-Host Interactions From Molecules to Populations." M-149 Biological Sciences Centre.

### CANADIAN INSTITUTE OF UKRAINIAN STUDIES

2 December, 7:30 pm

Mykhailo Molchanov, "The Totalitarian Legacy and the Political Situation in Ukraine and Russia: A Cross-National Comparison." Heritage Lounge, Athabasca Hall.

### CENTRE FOR INTERNATIONAL BUSINESS STUDIES

13 December, 3:30 pm

Emil Himirski, associate professor, International Economic Relations and Business, University of National and World Economy, Sofia, Bulgaria, "The Privatization and Restructuring of State-Owned Enterprises in Eastern Europe." RSVP: 492-2235. Stollery Centre, 5th Floor, Business Building.

### GEOGRAPHY

2 December, 3 pm

Jon Harbor, Earth and Atmospheric Sciences, Purdue University, "Understanding the Development of Glacial U-shaped Valleys:

From Elegant Analyses (1870s) to Numerical Modelling (1990s)." 3-36 Tory Building.

### HISTORY AND CLASSICS

5 December, noon

John Foster, "A Historian's Experience at the Archives." TB-W2 Tory Breezeway.

### HUMAN ECOLOGY

8 December, 2:30 pm

Tamara Tuchak, "Inuit Women in Arts and Crafts." 131 Home Economics Building.

13 December, 12:30 PM

Betty Crown, "Protective Clothing Research: A Human Ecology Perspective." 131 Home Economics Building.

### MARKETING AND ECONOMIC ANALYSIS

12 December, 10 am

Brian Towers, Penn State University, "Change and Continuity: Industrial Relations in Britain, Germany, and the USA." Stollery Centre, 5th Floor, Business Building.

### PHYSICS

5 December, 2 pm

Stephan von Molnar, MARTECH Director, Florida State University, "Magnetic Polarons in Condensed Matter." V-129 Physics Building.

### PHILOSOPHY

8 December, 3:30 pm

Peter Schouls, "Aristotle and the Modern Mind." 4-29 Humanities Centre.

9 December, 3:30 pm

Christiane Schildknecht, University of Konstanz, "Colouring the Categories: Frege's Language of Explication." 4-29 Humanities Centre.

### PHYSIOLOGY

2 December, 3 pm

Martin Post, Department of Pediatrics, Hospital for Sick Children, University of Toronto, "The Role of Growth Factors in Fetal Lung Development." 207 Heritage Medical Research Centre.

### RURAL ECONOMY

5 December, 3:15 pm

Peter C Boxall, forest economist, Canadian Forest Service, "Non-Market Valuation of Forest Recreation: An Examination of Wilderness Use in East Manitoba." 519 General Services Building.

### SIGNAL TRANSDUCTION LABORATORIES

7 December, 8:30 am

Jody Ginsberg, "The Role of Protein Kinase C in the Regulation of Thyroid Function." 2J4.02 Mackenzie Health Sciences Centre.

### SLAVIC AND EAST EUROPEAN STUDIES

5 December, 3 pm

Larisa Buryak, Department of History, Kiev Pedagogical Institute of Foreign Languages, "The Cooperative Movement in Ukraine: 1917-1920." 430 Arts Building.

### ZOOLOGY

6 December, 12:30 pm

Madhu V Singh, "Gap Junctions and Growth of Glioma Cells." G-114 Biological Sciences Centre.

This symbol denotes environmentally-related seminars/events. If you wish to have an environmentally-related event listed in this way, please contact: The Environmental Research and Studies Centre, 492-6659.



# EVENTS

## EXHIBITIONS

### EXTENSION CENTRE GALLERY

Until 20 December

"Alberta Clay"—from the Collection of The Alberta Foundation for the Arts. Gallery hours: Monday to Thursday, 8:30 am to 8 pm; Friday, 8:30 am to 4:30 pm; Saturday, 8:30 to 11:30 am. Information: 492-3034. 2-54 University Extension Centre.

### FAB GALLERY

Until 4 December

"Ryoji Ikeda: Works 1979-94." Gallery hours: Tuesday to Friday, 10 am to 1 pm and 2 to 5 pm; Sunday, 2 to 5 pm; statutory holidays, Saturday, Monday, closed. 1-1 Fine Arts Building.

## FILM

### DEPARTMENT OF GERMANIC LANGUAGES

6 December, 7:15 pm

Wann, wenn nicht jetzt (1987)—German with English subtitles. 141 Arts Building.

## MUSIC

### CHRISTIAN CHAPLAINS' ASSOCIATION AND DEPARTMENT OF MUSIC

6 December, 5:15 pm

Festival of Lessons and Carols for Advent and Christmas—featuring the University Mixed Chorus and various readers from the University community. Convocation Hall.

## DEPARTMENT OF MUSIC

2 December, 8 pm

Stage Bands I and II Concert. Raymond Baril and Tom Dust, directors. An Evening of Big Band Jazz. Admission: \$5/adults, \$3/students and seniors. Convocation Hall.

4 December, 3 pm

University of Alberta Concert Band. William H Street, director, with trombone soloist Malcolm Forsyth. Program will include works by Wood, Woolfenden, Del Borgo, Sheldon, PDQ Bach, Fillmore, Greenwood and Jacob. Admission: \$5/adults, \$3/students and seniors. Convocation Hall.

4 December, 8 pm

University Symphony Orchestra Concert. Norman Nelson, conductor. Program includes works by Beethoven, Stravinsky and Tchaikovsky. Admission: \$5/adults, \$3/students and seniors. Convocation Hall.

5 December, 8 pm

Master of Music Choral Recital: László Nemes, conductor. Convocation Hall.

### EDMONTON CHAMBER MUSIC SOCIETY

7 December, 8 pm

Ensemble Project Ars Nova. Tickets available from The Gramophone and at the door. Information: 433-4532. Convocation Hall.

### EDMONTON YOUTH ORCHESTRA

11 December, 3 pm

Senior Orchestra. Conductor: Michael Massey. This concert is dedicated to the memory of Siludette O'Connor. Convocation Hall.

18 December, 3 pm

Intermediate Orchestra. Convocation Hall. Tickets: \$7/adults; \$5/seniors and students. Information: 436-7932.

# POSITIONS

The University of Alberta is committed to the principle of equity in employment. The University encourages applications from aboriginal persons, disabled persons, members of visible minorities and women.

## ACADEMIC STAFF

### CHAIR, DEPARTMENT OF SECONDARY EDUCATION

Applications and nominations are invited for the position of Chair of the Department of Secondary Education. The department consists of 20 faculty members. The department offers programs of study in the following areas: Art, Business, Drama, English, Biological Sciences, General Science, Home Economics, Industrial Education, Mathematics, Music, Physical Education, Second Languages and Social Studies. There are approximately 80 graduate students within the department.

We seek an individual with strong academic qualifications, demonstrated leadership, and administrative and interpersonal skills with a strong commitment to excellence in teaching and research. Applications (including a curriculum vitae and names of three referees) and nominations should be submitted by 2 January 1995 to: Dr Harvey W Zingle, Dean, Faculty of Education, University of Alberta, 845 Education South, Edmonton, Alberta T6G 2G5. The incumbent chair will be an applicant for the position.

The appointment will normally be for a five-year term, commencing 1 July 1995 or as soon as possible thereafter.

### CHAIR, DEPARTMENT OF ELEMENTARY EDUCATION

Applications and nominations are invited for the position of Chair of the Department of Elementary Education. The department consists of 34 faculty members. The department offers a BEd elementary route, MEd with a thesis and course-based route, PhD and EdD. There are approximately 103 graduate students within the department.

We seek an individual with strong academic qualifications, demonstrated leadership, and administrative and interpersonal skills with a strong commitment to excellence in teaching and research. Applications (including a curriculum vitae and names of three referees) and nominations should be submitted by 16 January 1995 to: Dr Harvey W Zingle, Dean, Faculty of Education, University of Alberta, 845 Education South, Edmonton, Alberta T6G 2G5. The incumbent chair will be an applicant for the position.

The appointment will normally be for a five-year term, commencing 1 July 1995 or as soon as possible thereafter.

## SUPPORT STAFF

To obtain information on support staff positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall. You can also call the Job Information line at 492-7205 (24 hours) or consult the weekly Employment Opportunities Bulletin.

# ADS

## ACCOMMODATIONS FOR RENT

MICHENER PARK - Two bedroom rowhouses and apartments for rent in University residence located in southwest Edmonton. Excellent bus service to University, utilities included. University inquiries welcome, 492-7044.

EXECUTIVE two storey on ravine in Capitol Hill! Unique interior, completely renovated in keeping with the old style. Immediate possession. \$2,000/month, lease. Western Relocation, 434-4629.

MODERN! MILLCREEK! Perfect! Fourth floor furnished condo. Southwest exposure, one bedroom, den, jacuzzi tub. Eight month lease, nonsmokers, no pets. \$800/month. Western Relocation, 434-4629.

SALE OR RENT - Spacious, executive-style home, prestigious Fairway Drive location with large landscaped lot. Has garage, four bedrooms, four bathrooms, jacuzzi and finished basement with office. Near several schools, University, freeway, shopping and golf course. Call 436-6925.

NEAR UNIVERSITY - Completely furnished one bedroom. Fantastic view, pool. Weekly, monthly, or long term. Suitable for visiting professor. 433-7165, 492-5301.

UNIVERSITY FARM - Edmonton Research Station. Spacious three bedroom home, large landscaped yard. Bike or walk to University, schools. Kitchen appliances included. \$1,000/month. Call 492-3148.

COZY, FURNISHED two bedroom bungalow in Strathcona, with piano. \$500/month. 6 January to 31 May 1995. 431-2176.

PETROLIA/GREENFIELD - Furnished two storey, four bedroom, fireplace, family room. 1 January 1995 - 31 January 1996. \$1,200/month. Western Relocation, 434-4629.

WALK TO U OF A - Large four bedroom, four appliances, \$825/month. 487-1862 or 499-3347.

GARNEAU - Fully furnished house available for rent 1 January to 30 June. Two/three bedrooms, two bathrooms. Nonsmoking. Quiet road 200 yards from campus. \$800/month including utilities. 432-1294.

FEMALE TO SHARE - Two bedroom apartment with mature male/female. Good bus service to U of A. \$225/month plus utilities. 433-8456.

ROOM WITH A VIEW - Quiet mature, nonsmoker to share charming house with mature female. Near University. \$280/month plus utilities. Available 1 January. 436-0894.

MILLCREEK - Seeking professional to rent, 1 January. Upgraded three bedroom house, hardwood floors, dishwasher, laundry, garage, deck, on elm-lined street. 432-9468, Sherri.

WEST END CONDO - Two bedrooms facing park. \$650/month, immediate possession. Western Relocation Services, 434-4629.

HORSE LOVERS MUST VIEW! Lovely farm on 65 acres with 5,000 square foot riding stable and many out buildings near Ukrainian Village. \$1,200/month. Lease two years. Western Relocation Services, 434-4629.

GLENORA EXECUTIVE - Two storey three bedroom with ravine at back door. Hardwood floors, exquisite entertainment areas. \$1,550/month lease. Western Relocation Services, 434-4629.

MILLCREEK/OLD STRATHCONA - Charming, spacious three bedroom bungalow. No basement. 1 January to 30 April (or negotiable). Partially furnished if desired. Nonsmokers, no pets. \$600/month plus utilities. Call Pat at 439-5483.

NEWER two bedroom on ravine. Ten minutes from University. January to March. \$900/month. No pets. References. 452-8224.

AVAILABLE NOW - Three bedroom bungalow, 1 1/2 baths. Next to campus. Finished

basement, single detached garage, large fenced yard with garden. \$900/month. Utilities not included. Phone 425-3645.

FURNISHED - Sunny one bedroom apartment for sublet. Close to campus. January to April 1995. Nonsmoker only. No pets. 437-1970.

ROYAL GARDENS - Bus routes 36 and 52. Upgraded three bedroom bungalow. Four appliances and curtains. Available 26 December. 438-0404.

UNIVERSITY AREA - Three bedroom house. Two bathrooms, four appliances, garage. New, energy efficient furnace. \$600/month. 467-0413.

CASTLEDOWNS - Four bedrooms, 2 1/2 baths, finished basement, fireplace, double attached garage, large garden, quiet cul-de-sac. New carpet and window coverings. Immaculate. Nonsmokers, no pets. Available 1 January 1995 for up to three years. \$850/month. Call Jack, 988-8067.

WESTGROVE - Immediate. Main and upper three bedroom semi-bungalow. Hardwood, blinds, appliances. Occupied single suite in basement. 481-9447 or 444-4511.

FURNISHED ONE BEDROOM condo with loft, fireplace, washer, dryer, dishwasher, heated parking. Short/long term lease. Available 1 January 1995. Suitable for visiting professor. 433-8349.

RIVERBEND - Four bedrooms, three-car garage, eight appliances. Fireplace and jacuzzi in master. Available 1 January. \$990/month. 435-4504.

WATER'S EDGE PENTHOUSE condo with spectacular south view and balcony. Two bedrooms, each with separate bathroom. All appliances included. Washer, dryer and central air-conditioning. Two parking spaces available. Deposit of \$400 required. Lease \$775/month. Please call Theresa at 466-4832.

MONTREAL - January to May. Lovely, large furnished apartment near mountain, McGill, downtown. Bright third floor casement

windows, pine furniture. Ideal for professor on sabbatical or graduate student. Call 435-1611 or 1-514-849-0523.

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INTERESTED in buying, selling or leasing a condominium? Call me first. Available from \$33,000 to \$474,500. Ask for Connie Kennedy, condo consultant/specialist, 25 years. Re/Max, 488-4000.

## ACCOMMODATIONS FOR SALE

VICTORIA PROPERTIES - Knowledgeable, trustworthy realtor with Edmonton references will answer all queries, send information, no cost/obligation. "Hassle-free" property management provided. (604) 595-3200, Lois Dutton, Re/Max ports west, Victoria, B.C.

MILLCREEK CHARACTER HOME - Three bedroom renovated house features hardwood floors, granny tub, southern exposure on elm-lined street. Minutes from University, it has new kitchen, bath, developed basement, deck, garage and five appliances. \$136,000. For appointment, call 432-9468.

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NEW VICTORIAN three bedroom, two storey duplex with raised basement, two-car garage. Verandah and balcony overlook park in beautiful Scona neighbourhood. Immediate possession. Come! See! at 10516 73 Avenue. Call realtor/owner Neil Longson, Ltd Realty Inc, 436-7410, or residence 439-4580.



**SAVE, SAVE, BELOW APPRAISED VALUE** - Customized condo, University area. Skylight, oversized balcony, view, two bedrooms, bath, office area, many extras. By owner. \$128,900. 439-8829.

**PARKALLEN DREAM** - Beautifully renovated with large oak kitchen, ultra steam bath, plush carpets and more. Inlaw suite/private entrance, 22x30 heated garage. \$126,900. Call Helen Schick at 468-2100. Coldwell Banker Panda Realty.

**A TOUCH OF CLASS** - Exciting, substantially renovated 1,700 square foot home with bookshelf-lined library and 2 1/2-car garage. Patio doors onto sunny backyard. Two fireplaces, sauna, gleaming new hardwood floors throughout. 10833 75 Avenue. 431-0726.

**CARRINGTON PLACE** - Sparkling one bedroom condo with easy access to parking (ground floor unit). Janet Jenner, Spencer Real Estate, 435-0808.

**ORIGINAL OWNER HOME** - On two lots, RF5 zoning. Perfect starter home with investment potential. Near public transportation, schools and shopping. Janet Jenner, Spencer Real Estate, 435-0808.

**BELGRAVIA** - \$169,900. Lovely 1 1/2 storey, hardwood, fireplace, 1,540 square feet, and spacious 1,720 square foot, four bedroom bungalow. \$169,500. Excellent locations. Ed Lastiwka, Royal LePage, 446-3800.

**\$209,500 UNIQUE**, contemporary 2,100 square foot half duplex. Double garage. \$172,000 mortgage at 7 1/4 percent. Immediate possession. 11112A University Avenue. Ed Lastiwka, Royal LePage, 446-3800.

**FIVE BEDROOMS** plus den up in this upgraded, traditional two storey. With special basement development. New siding, kitchen, etc. Quiet crescent. "Old Riverbend" location. 100-foot lot, 28 - foot double garage. 6 1/4 percent financing. Asking \$235,000. Liz Crockford, Spencer Realty, 435-0808.

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**CASH PAID FOR APPLIANCES** - 432-0272.

**CASH PAID** for quality books. The Edmonton Book Store, 433-1781.

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#### MISCELLANEOUS

**VOLUNTEERS** - for Asthma Treatment Study. Must be on inhaled steroids. Free medication provided. Contact: Dr Stan Mlynczak, 492-9562 or 492-9564.



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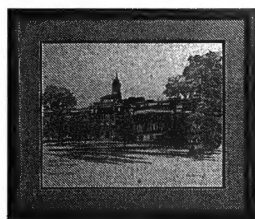


# Just in time for Christmas

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University of Alberta  
450 Athabasca Hall

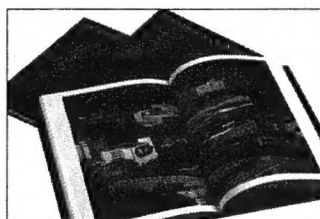


The University of Alberta Alumni Association is proud to make available these distinctive gift items.



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Attractive limited edition prints of the Old Medical Building, now the Dentistry/Pharmacy Centre, make beautiful display pieces for the home or office. \$50.00 (frame not included).



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Vibrant colour photos bring the University to life in this classic hard-bound book. \$30.00. (For departments who wish to purchase 10 or more of these attractive books, the cost is \$25.00.)



**Colibri Pen**

Green lacquer finish enhanced by burnished gold trim are the signature of this slimly profiled pen. Permanently mounted to the pen clip is a richly detailed University crest of sterling silver with 24Kt buffed gold finish. \$94.95 plus GST and shipping.



**University Brass Lamp**

Cast in solid brass and topped with a black parchment shade, this heirloom quality lamp provides a classic look for home or office. The University crest beautifully finished in gold and antique black sets off this striking accent piece. \$349.00 plus GST and shipping.



**Bulova Accutron Watch**

The allure of this sleek watch is the distinctive face, adorned with the University of Alberta crest. The crest, carved into solid sterling silver and plated 18Kt gold, is rendered with a high definition of detail. \$299.00 plus GST and shipping.

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Lithographs and books are available from the Office of Alumni Affairs along with a limited number of pens, watches and lamps. Office hours are 8:30 to 12:00 and 1:00 to 4:30 pm, Monday to Friday.

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this paper

## Graduate Scholarship Application Workshop

Graduate Students' Association • Faculty of Graduate Studies & Research

**Leon Lubin** Director, Alberta Heritage Scholarship Fund

**Carl Betke** Director, Research Grants Office (on Postdoctoral Fellowships)

**Bill McBlain** Assist. Dean Research, Faculty of Medicine

**Helmy Sherif** Assoc. Dean, Faculty of Grad. Studies and Research & Chair, Graduate Scholarship Committee

•for ALL disciplines•

**Tuesday, December 6**  
**2:00 p.m. to 4:00 p.m.**  
**Bernard Snell Hall**

(in Walter C. MacKenzie Health Sciences Centre)

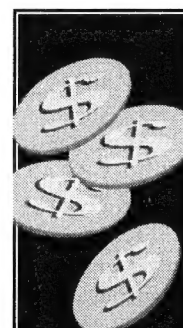
Refreshments will be served

For more information, please call the  
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